



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

P3000-50
Job Sheet 169943



Part No: P3000-50

Job Qty: 2 ea

Part Name: Plasma® Long Line 3,000 lbs Safe Work Load (1,350 kg)



Part Weight: 0 lbs

Status: Scheduled

Priority: Medium

Job Created: 1/4/18

Job Tracking No:

Due Date: 1/18/18

Created By: Marie Lajeunesse

Type: Stock

Description:

Note: DWG P###-## Rev 1(TEO17-741) IPP Rev A 17.11.13 New issue DP Verify DD

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup hrs	Run Hrs	Workcenter / Supplier	Lead Time	
110	Purchasing	2 pcs		1/17/18	0.00	0.00	Purchasing		AP 18/04/09
120	Packaging	2 pcs		1/17/18	0.00	0.00	Packaging2		AP 18/04/09
130	QC	2 pcs		1/17/18	0.00	0.00	QC6		11
131	Small Fab	2 pcs		1/18/18	0.00	2.00	Small Fab-7		17/9/89
140	Packaging	2 pcs		1/18/18	0.00	0.00	Packaging3		17/9/89
150	QC21-FG	2 Ea		1/18/18	0.00	0.00	QC21		APR 18 2018

Part Op 110 - -Issue P/O to Tulmar; P/O 38917 -Manufacture as per DWG P3000-50 -Certificate of Conformity is

Descriptions: required

131 - 1-Engrave 1632T22 tags as per DWG sheet 7. 2-Attach first tag using 90177A218 ring to zipper on -39 bag, place second tag in front pocket of -39 bag. 3-Pack bag.

Job BOM

Part / Item	Component Name	Quantity	Operation	Container
P3000-50P	Plasma® Long Line 3,000 lbs Safe Work Load (1,350 kg)	2 pcs (1 ea)	110-Purchasing	5059387
1632T22	Aluminum Tag 1" X 2" X 0.04"	4 pcs (2 ea)	131-Small Fab	
600.1327P	Long Line Carry Bag	2 pcs (1 ea)	131-Small Fab	
90177A218	Split Ring	4 Ea (2 ea)	131-Small Fab	

Job Allocations

Operation	Component Part	Required	Inventory	Allocated
110-Purchasing	P3000-50P	2	0	0
131-Small Fab	1632T22	4	97	0
	600.1327P	2	34	0
	90177A218	4	100	0

Part Specifications

Specifications could not be found.

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____ Date : _____ Description _____	DISPOSITION Rework ☐ Scrap ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Cross tube ☐ Water Jet ☐ Engineering ☐ d. Eng. Coord. ☐ Quality ☐ re/Packaging ☐ Other ☐ Supplier ☐
CONTAINER NO. 00000000000000000000 Plasma® Long Line 3,000 lbs Safe Work Load (1,350 kg)		MRB (QSI042) Approval _____ Completed By _____ Lead hand / Supervisor Approval Verification _____ QC / QA Coordinator Approval _____
PART NO: P3000 – 50 Serial No/Batch: S059388 Revision: Operation: Packaging Change No: Mfg Date: 04/09/18 Job No: 169943		
Root Cause		
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verificatic ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐
Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐		
OTHER : _____		



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P3000-50
Job Sheet 169943



Part No: P3000-50

Job Qty: 2 ea

Part Name: Plasma® Long Line 3,000 lbs Safe Work Load (1,350 kg)



Part Weight: 0 lbs

Status: Scheduled

Priority: Medium

Job Created: 1/4/18

Job Tracking No:

Due Date: 1/18/18

Created By: Marie Lajeunesse

Type: Stock

Description:

Customer: Eagle Copters South America (CEAGL01)

Aerodrome De Chicureo, Camino Guay-Guay #8881 Colina, Santiago, , 9340000 Chile ph:+56 22 948 3200
fx:+56 2 2247 8290.

Note: DWG P###-## Rev 1(TEO17-741) IPP Rev A 17.11.13 New issue DP Verify DD

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup hrs	Run Hrs	Workcenter / Supplier	Lead Time	
110	Purchasing	2 pcs		1/18/18	0.00	0.00	Purchasing		
120	Packaging	2 pcs		1/18/18	0.00	0.00	Packaging2		
130	QC	2 pcs		1/18/18	0.00	0.00	QC6		
140	Packaging	2 pcs		1/18/18	0.00	0.00	Packaging3		
150	QC21-SA	2 Ea		1/18/18	0.00	0.00	QC21		

Part Op 110 - -Issue P/O to Tulmar; P/O 38417 -Manufacture as per DWG P3000-50 -Certificate of Conformity is
Descriptions: required

JAN 09 2018

13
6-80

Job Allocations

Operation	Component Part	Required	Inventory	Allocated	Std Qty
110-Purchasing	P3000-50P	2	0	0	0

Part Specifications

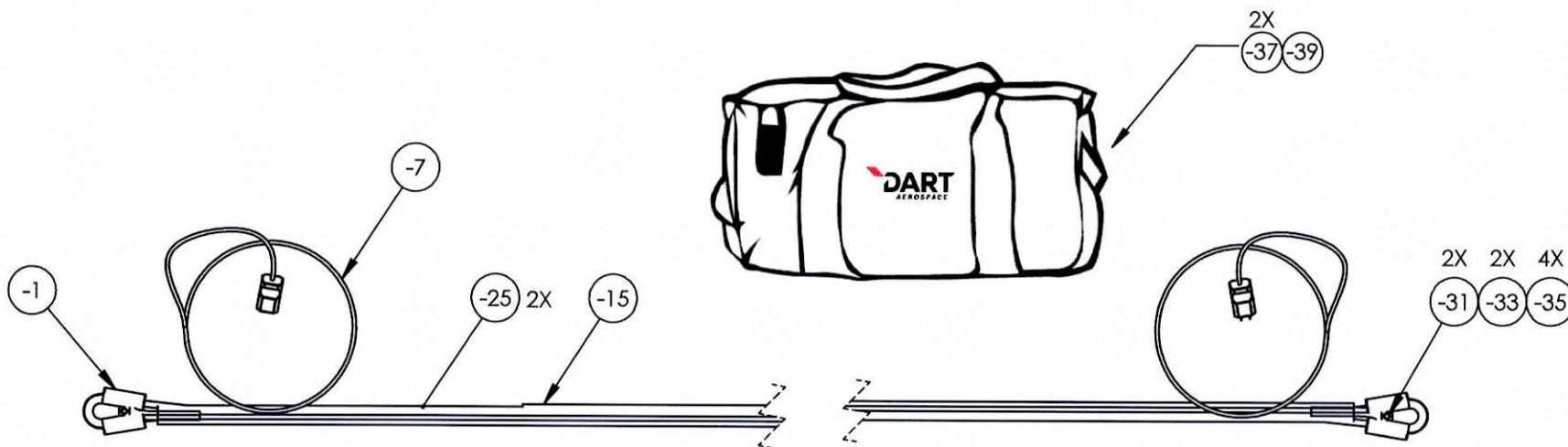
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Plex 1/4/18 7:53 AM Dart.lajeunesse.marie

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
1		RELEASED FOR PRODUCTION.	5/5/2017	SM	JAG

TEO ATTACHED



ASSY QTY	ASSY QTY	ASSY QTY	ASSY QTY	B/O	Part #	UNIT QTY	Description	Material	B/O INFORMATION OR SPECIFICATIONS	PG.
			X		-1	1	LINE/THIMBLE ASSEMBLY			2
			1	B/O	-3		ROPE		SEE TABLE 1, MODIFIED	2
			2	B/O	-5		THIMBLE	STEEL	SEE TABLE 1, MODIFIED	3
			2	B/O	-6		EPOXY	EPOXY	(SMOOTH CAST 45D)	2
		X			-7	1	WIRE ASSEMBLY			4
		1		B/O	-9		WIRE		14/3 SJTOW, MODIFIED	4
		1		B/O	-11		3-PRONG MALE SPADE PLUG	EL-PLUG-M	(PASS & SEYMOUR # PS5965Y)	4
		1		B/O	-13		3-PRONG FEMALE SPADE PLUG	EL-PLUG-F	(PASS & SEYMOUR # PS5969Y)	4
	X				-15	1	JACKET		SEE TABLE 2	5
	1			B/O	-17		WEBBING		SEE TABLE 2	5
	1			B/O	-19		1" VELCRO	NYLON	1" HOOK FASTENING TAPE (J. ENNIS FABRICS # VELSE9004)	5
	1			B/O	-21		1" VELCRO	NYLON	1" LOOP FASTENING TAPE (J. ENNIS FABRICS # VELSE9005)	5
1	1			B/O	-23		2" VELCRO	NYLON	2" HOOK FASTENING TAPE (J. ENNIS FABRICS # VELSE9006)	5,6
X				B/O	-25	2	END RETURN		SEE TABLE 3	6
1				B/O	-27		WEBBING		TOP GUN MATERIAL, MEDIUM BLUE	6
1				B/O	-29		2" VELCRO	NYLON	2" LOOP FASTENING TAPE (J. ENNIS FABRICS # VELSE9007)	6
				B/O	-31	2	BOLT	STEEL	AN3-10A	1
				B/O	-33	2	NUT	STEEL	MS21044-N3	1
				B/O	-35	4	WASHER	STEEL	AN960-10	1
					-37	2	TAG		PAPER	7
				B/O	-39	1	BAG		DART AEROSPACE BAG (600.1327)	1
ASSY -25	ASSY -15	ASSY -7	ASSY -1							

NOTE:
1. CONSULT LONG LINE ASSEMBLY MANUAL FOR PRODUCT ASSEMBLY.

DART
AEROSPACE

LONG LINE

DWG NO.	P###-##	REV	1
MAT'L	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 FRACTIONS ± 1/8 .XX ± .01 ANGLES ± 5° .X ± .1 SURFACES = 125/✓		
HEAT TREAT			
FINISH			
SPEC			
DRAWN BY:	SM 05/05/2017	1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING 3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009 USED ON MODEL	
CHECKED:	DD 05/08/2017		
OPPS APPR:	AA 05/10/2017		
QA APPR:	JL 05/10/2017		
APPROVED:	JAG 05/17/2017		
SCALE	1:12	DATE	5/5/2017
		SHEET 1 OF 7	

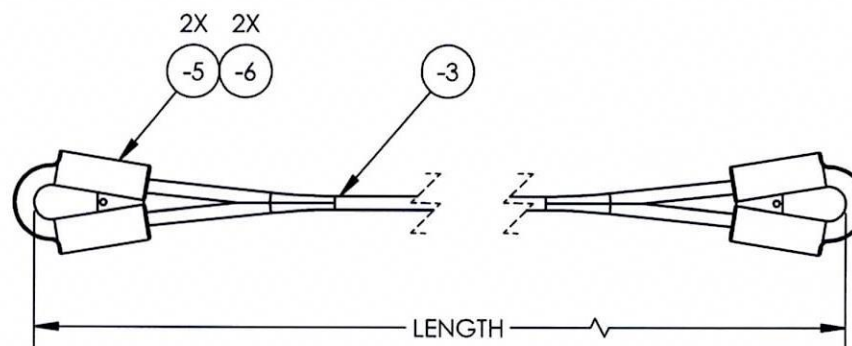
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REVISIONS			
REV	ECR	DESCRIPTION	DATE INITIAL APPROVED

TEO ATTACHED

TABLE 1

P####	-## (LENGTH FT.)	-3 (ROPE)	-5 (THIMBLE)
2500	50	3/8" PLASMA® 12 STRAND	G715PC
	100		
	150		
	200		
	CUSTOM		
3000	50	7/16" PLASMA® 12 STRAND	
	100		
	150		
	200		
	CUSTOM		
4400	50	1/2" PLASMA® 12 STRAND	G719PC
	100		
	150		
	200		
	CUSTOM		
5400	50	9/16" PLASMA® 12 STRAND	
	100		
	150		
	200		
	CUSTOM		
7300	50	5/8" PLASMA® 12 STRAND	G725PC
	100		
	150		
	200		
	CUSTOM		
9700	50	3/4" PLASMA® 12 STRAND	
	100		
	150		
	200		
	CUSTOM		
13200	50	7/8" PLASMA® 12 STRAND	G735PC
	100		
	150		
	200		
	CUSTOM		
15700	50	1" PLASMA® 12 STRAND	G745PC
	100		
	150		
	200		
	CUSTOM		



NOTE:

- CUT AND SPLICE ROPE WITH THIMBLES IN ACCORDANCE WITH THE LONG LINE ASSEMBLY MANUAL AND CUT LENGTH CALCULATOR.

DART AEROSPACE	
TITLE LONG LINE	
DWG NO. P####-##-1	REV 1
MAT'L HEAT TREAT FINISH SPEC	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .010 FRACTIONS ± 1/8 .XX ± .03 ANGLES ± 1° .X ± .1 SURFACES = 125/	
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
DRAWN BY: SM 05/05/2017	USED ON MODEL
CHECKED: DD 05/08/2017	
OPPS APPR: AA 05/10/2017	
QA APPR: JL 05/10/2017	
APPROVED: JAG 05/17/2017	
SCALE 1:6	DATE 5/5/2017
SHEET 2 OF 7	

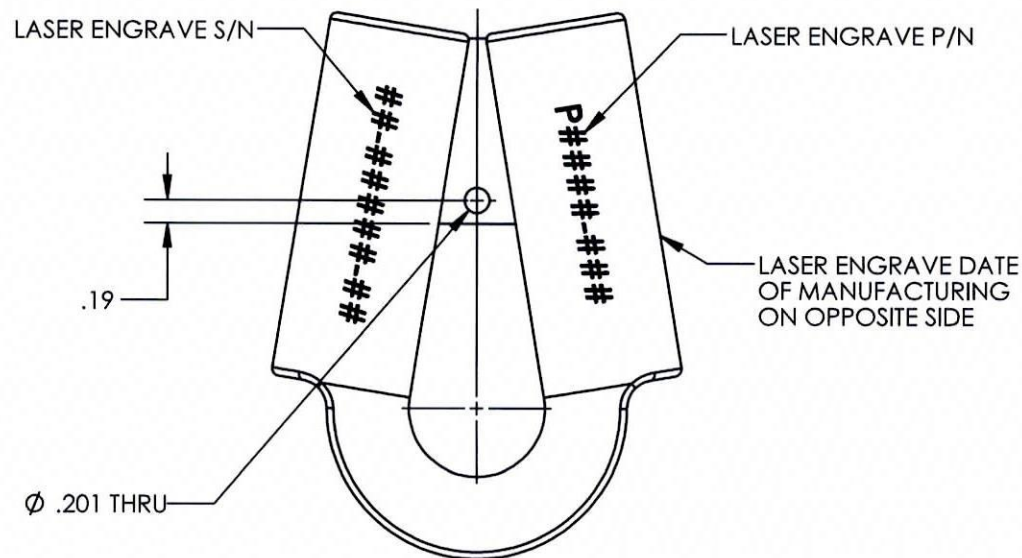
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LINE/THIMBLE ASSEMBLY

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				APPROVED

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NOTE:

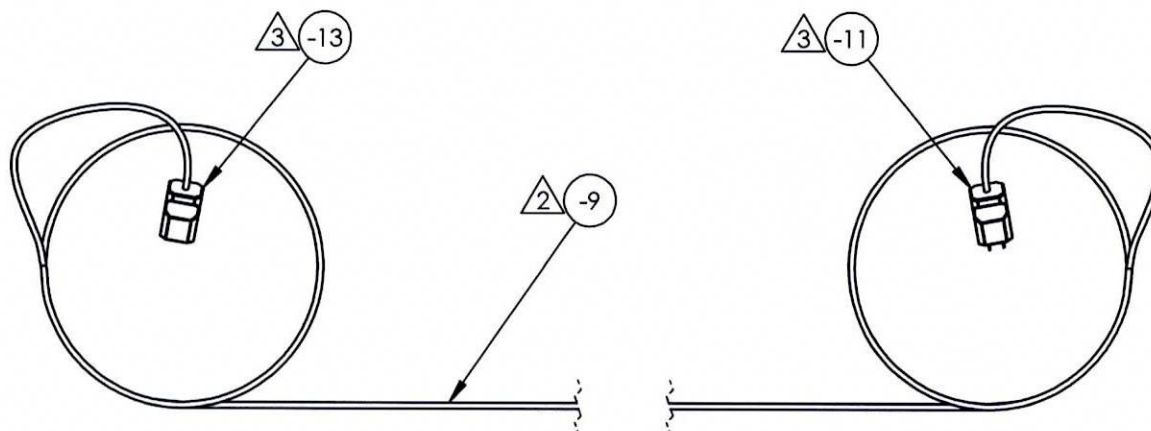
1. USE THIMBLE REFERENCED TO IN TABLE 1.

DART AEROSPACE	
TITLE LONG LINE	
DWG NO. P####-##-5	REV 1
MAT'L STEEL	UNLESS OTHERWISE SPECIFIED
HEAT TREAT	DIMENSIONS ARE IN INCHES
FINISH GRAY POWDERCOAT	.XXX ± .010 FRACTIONS ± 1/8
SPEC	.XX ± .03 ANGLES ± 1°
	.X ± .1 SURFACES = 125/
DRAWN BY: SM 05/05/2017	1. BREAK ALL SHARP EDGES
CHECKED: DD 05/08/2017	.015 x 45° OR .015R
OPPS APPR: AA 05/10/2017	2. DIMENSIONAL LIMITS APPLY
QA APPR: JL 05/10/2017	AFTER PLATING
APPROVED: JAG 05/17/2017	3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009
SCALE 2:3	USED ON MODEL
DATE 5/5/2017	SHEET 3 OF 7

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REVISIONS				
REV	ECR	DESCRIPTION	DATE	INITIAL
				APPROVED

TEO ATTACHED



NOTES:

1. WIRING REQUIREMENTS MAY VARY UPON CUSTOMER REQUEST.
2. DETERMINE OVERALL WIRE LENGTH USING LONG LINE ASSEMBLY MANUAL.
3. SPLICE WIRE ENDS IN ACCORDANCE WITH LONG LINE ASSEMBLY MANUAL.



TITLE		LONG LINE	
DWG NO.		P####-##-7	
REV		1	
MAT'L		UNLESS OTHERWISE SPECIFIED	
HEAT		DIMENSIONS ARE IN INCHES	
TREAT		.XXX ± .010 FRACTIONS ± 1/8	
FINISH		.XX ± .03 ANGLES ± 1°	
SPEC		.X ± .1 SURFACES = 125/	
DRAWN BY:		SM 05/05/2017	
CHECKED:		DD 05/08/2017	
OPPS APPR:		AA 05/10/2017	
QA APPR:		JL 05/10/2017	
APPROVED:		JAG 05/17/2017	
SCALE		1:8	
DATE		5/5/2017	
SHEET		4 OF 7	

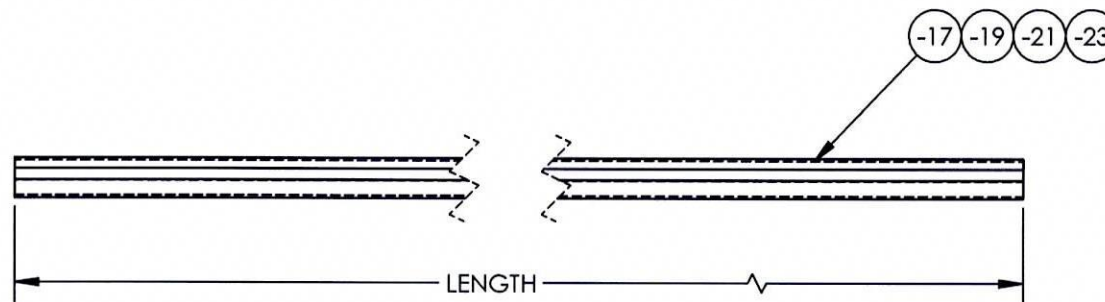
-7

WIRE ASSEMBLY

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REVISIONS							
REV	ECR	DESCRIPTION			DATE	INITIAL	APPROVED

TEO ATTACHED



NOTES:

1. PROVIDE -17, -19, & -21 MATERIALS TO VENDOR.
2. CONSULT LONG LINE ASSEMBLY MANUAL FOR JACKET LENGTH.

TABLE 2

TABLE 2		
LONG LINE	-17 MATERIAL WIDTH	LENGTH
P2500-##	MURDOCK WEBBING CO. INC 4 1/8" SINGLE-WALLED TUBULAR WEB ORANGE	SEE NOTE 2
P3000-##		
P4400-##		
P5400-##		
P7300-##	MURDOCK WEBBING CO. INC 5 1/8" SINGLE-WALLED TUBULAR WEB ORANGE	
P9700-##		
P13200-##		
P15700-##	MURDOCK WEBBING CO. INC 6 1/8" SINGLE-WALLED TUBULAR WEB ORANGE	

-15

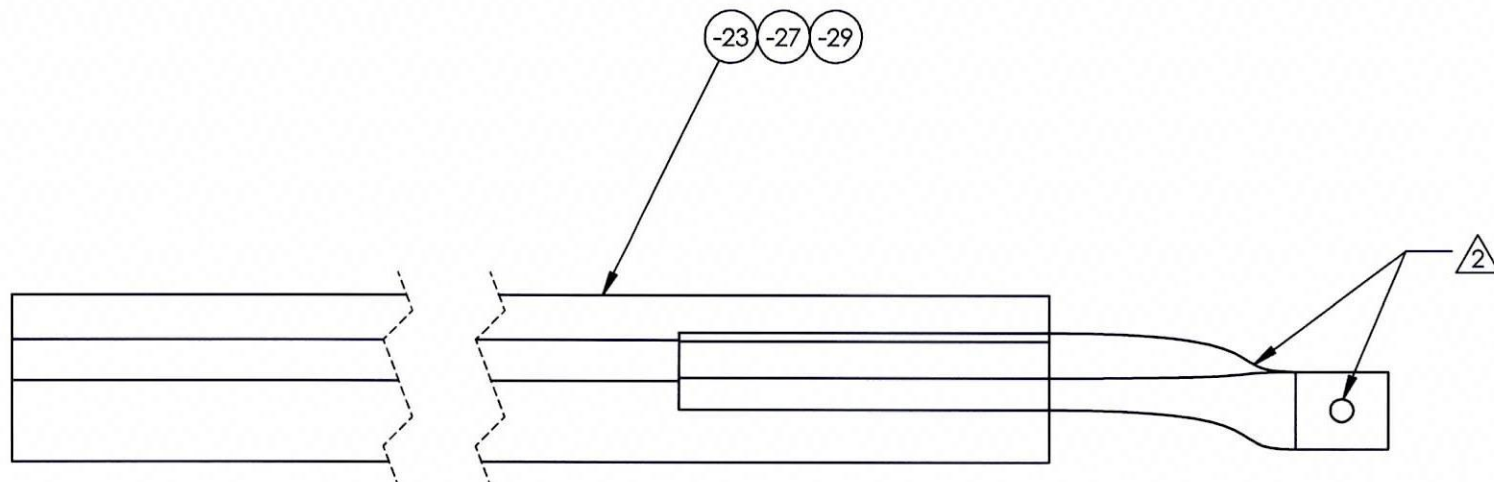
JACKET

DART AEROSPACE											
TITLE LONG LINE											
DWG NO. P####-##-15	REV 1										
<table border="1"> <tr> <td>MAT'L</td> <td>UNLESS OTHERWISE SPECIFIED</td> </tr> <tr> <td>HEAT</td> <td>DIMENSIONS ARE IN INCHES</td> </tr> <tr> <td>TREAT</td> <td>.XXX ± .010 FRACTIONS ± 1/8</td> </tr> <tr> <td>FINISH</td> <td>.XX ± .03 ANGLES ± 1°</td> </tr> <tr> <td>SPEC</td> <td>.X ± .1 SURFACES = 125/</td> </tr> </table>		MAT'L	UNLESS OTHERWISE SPECIFIED	HEAT	DIMENSIONS ARE IN INCHES	TREAT	.XXX ± .010 FRACTIONS ± 1/8	FINISH	.XX ± .03 ANGLES ± 1°	SPEC	.X ± .1 SURFACES = 125/
MAT'L	UNLESS OTHERWISE SPECIFIED										
HEAT	DIMENSIONS ARE IN INCHES										
TREAT	.XXX ± .010 FRACTIONS ± 1/8										
FINISH	.XX ± .03 ANGLES ± 1°										
SPEC	.X ± .1 SURFACES = 125/										
<table border="1"> <tr> <td>DRAWN BY:</td> <td>SM 05/05/2017</td> </tr> <tr> <td>CHECKED:</td> <td>DD 05/08/2017</td> </tr> <tr> <td>OPPS APPR:</td> <td>AA 05/10/2017</td> </tr> <tr> <td>QA APPR:</td> <td>JL 05/10/2017</td> </tr> <tr> <td>APPROVED:</td> <td>JAG 05/17/2017</td> </tr> </table>		DRAWN BY:	SM 05/05/2017	CHECKED:	DD 05/08/2017	OPPS APPR:	AA 05/10/2017	QA APPR:	JL 05/10/2017	APPROVED:	JAG 05/17/2017
DRAWN BY:	SM 05/05/2017										
CHECKED:	DD 05/08/2017										
OPPS APPR:	AA 05/10/2017										
QA APPR:	JL 05/10/2017										
APPROVED:	JAG 05/17/2017										
SCALE 1:4	DATE 5/5/2017										
SHEET 5 OF 7											

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REVISIONS			
REV	ECR	DESCRIPTION	DATE
			INITIAL
			APPROVED

TEO ATTACHED



NOTES:

1. PROVIDE MATERIALS -23, -27, & -29 TO VENDOR.
2. WEBBING AND EYELETS NOT PROVIDED

TABLE 3

LONG LINE	END RETURN
P2500-##	ER-3044
P3000-##	ER-3044-1
P4400-##	ER-5473
P5400-##	
P7300-##	
P9700-##	ER-9713
P13200-##	
P15700-##	
	ER-15002

(-25)

END RETURN

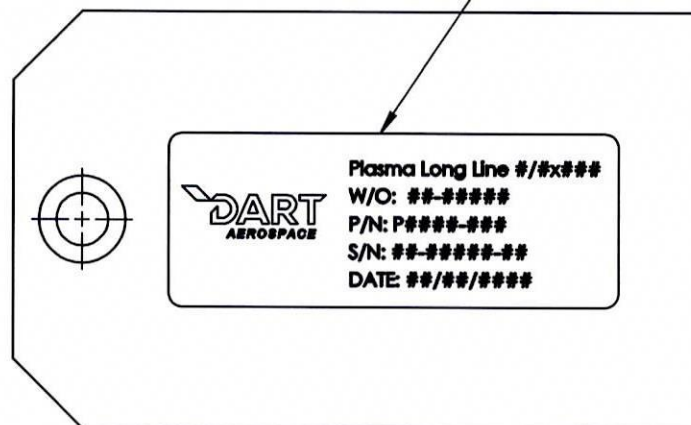
DART AEROSPACE	
TITLE LONG LINE	
DWG NO. P####-##-25	REV 1
MAT'L HEAT TREAT FINISH SPEC	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .010 FRACTIONS ± 1/8 .XX ± .03 ANGLES ± 1° .X ± .1 SURFACES = 125/✓ 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING 3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009
DRAWN BY: SM 05/05/2017	USED ON MODEL
CHECKED: DD 05/08/2017	
OPPS APPR: AA 05/10/2017	
QA APPR: JL 05/10/2017	
APPROVED: JAG 05/17/2017	
SCALE 2:3	DATE 5/5/2017
SHEET 6 OF 7	

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REVISIONS							
REV	ECR	DESCRIPTION			DATE	INITIAL	APPROVED

TEO ATTACHED

PRINT:
 PLASMA LONG LINE (ROPE DIAMETER (IN.))X(LENGTH (FT.))
 W/O: ##-####
 P/N: P####-###
 S/N: ##-####-##
 DATE: ##/##/####



NOTE:
 1. ATTACH FIRST TAG TO ZIPPER ON -39, PLACE SECOND TAG IN FRONT POCKET ON -39.

(-37)

TAG

DART AEROSPACE	
TITLE LONG LINE	
DWG NO. P####-##-37	REV 1
MAT'L _____ HEAT _____ TREAT _____ FINISH _____ SPEC _____	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .010 FRACTIONS ± 1/8 .XX ± .03 ANGLES ±1° .X ± .1 SURFACES = 125/	
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
USED ON MODEL	
DRAWN BY: SM 05/05/2017	
CHECKED: DD 05/08/2017	
OPPS APPR: AA 05/10/2017	
QA APPR: JL 05/10/2017	
APPROVED: JAG 05/17/2017	
SCALE 3:4	DATE 5/5/2017 SHEET 7 OF 7

**ENGINEERING ORDER # TEO17-741**

SCALE: NTS

SHEET 1 OF 1

DRAWING NO. P###-##

REV: 1

EFF.: NEXT ORDER

CHANGE CATEGORY

TITLE: LONG LINE

☒ MAJOR ☐ MINOR

DATE 17.11.08

APPROVED: WM 11/14/2017

MFG. APPR.: DD 11/14/2017

CHECKED: WM 11/14/2017

DRAWN: VM 11/09/2017

TRANSACTION CODE (TC):

A-ADD C-CREATE
R-REVISE D-DELETE

REASON: UPDATE TO DRAWING CALLOUTS FOR NEW SUPPLIER OF LONG LINES

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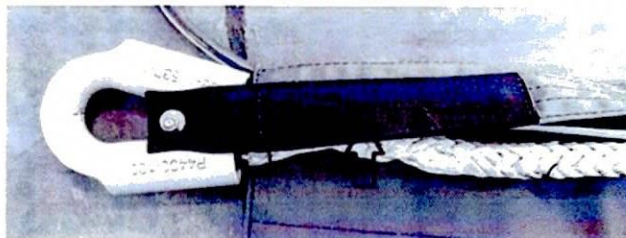
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USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION
FROM DART AEROSPACE LTD

1) JACKET MUST BE MADE WITH REFERENCE TO DRAWING P###-## REV 1, LONG LINE ASSEMBLY MANUAL AND SAMPLE PROVIDED TO TULMAR WITH P/N P5400-50 S/N AC09006

2) ACCEPTABLE TO USE EL-PLUG-M (PASS & SEYMOUR #PS5965Y) OR McMaster PLUG #7216K5
ACCEPTABLE TO USE EL-PLUG-F (PASS & SEYMOUR #PS5969Y) OR McMaster PLUG #7216K6

3) ACCEPTABLE TO USE SJEOOW OR SJTOW ELECTRICAL WIRE

4) LASER ENGRAVE S/N AND P/N ON THIMBLE IS OPTIONAL

5) IDENTIFICATION WITH SEWN ON LABEL AT LOCATION SHOWN TO INCLUDE: "Dart Aerospace Ltd. P/N: P###-##, S/N: XX-XXXX-XX, MANUFACTURE DATE: MM/DD/YYYY",
WHERE THE P###-## WILL BE DEPENDENT ON THE MODEL ORDERED PER DRAWING6) SELECTED COVER TO EXTEND THROUGH THIMBLE ENDS TO PREVENT ABRASION OF ROPE BY THIMBLE. THEY MUST BE THE SAME ON BOTH ENDS OF THE LONG LINE
ACCEPTABLE TO USE ONE OF: SLEEVE-DB-TEXSXX
WEARPADXX7) INSPECT CONDITION OF ROPE AT THE END OF THE ROPE RETURN AND THIMBLES. FRAYING OR DAMAGE TO ROPE IS NOT ACCEPTABLE. INSPECT JACKETS AND COVER. SEWING
TO BE CONTINUOUS AND WITH NO LOOSE THREADS. NO DAMAGE TO THE JACKETS IS ACCEPTABLE. ELECTRICAL CABLE MUST BE FREE OF DAMAGE OR NICKS TO THE INSULATION
WHERE VISIBLE (FULL INSPECTION OF WIRE IS NOT REQUIRED). ELECTRICAL CONNECTORS MUST BE SECURELY INSTALLED. PERFORM CONTINUITY CHECK TO ENSURE
THERE IS NO SHORT AND THAT CABLES ARE CONNECTED PROPERLY.

8) ACCEPTABLE TO USE Plasma® 12 STRAND ROPE OR Dyneema® SupreemX-12™ ROPE

9) PART MUST BE RECEIVED WITH CERTIFICATE OF CONFORMITY FROM TULMAR

10) IT IS ACCEPTABLE TO BUILD THE LONG LINE P###-## UTILIZING COMMON MANUFACTURING PRACTICES FROM Atlantic Braids AND Tulmar.
DART ASSEMBLY MANUAL IS FOR REFERENCE ONLY

11) ELECTRICAL WIRE LENGTH TO EXTEND 6' PAST THE BASE OF THE THIMBLE ON BOTH ENDS

12) JACKET LENGTH TO COVER THE ROPE UP TO AND INCLUDING THE END RETURN TAPER ON BOTH ENDS. JACKET LENGTH WILL BE DEPENDENT ON MODEL LENGTH

DOCUMENTS EFFECTED: ☐ PATTERN ☐ INSTALL INSTRUCTIONS ☒ BOM

15/2018



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER

PO038417

Supplier TUI 001-VC
Tulmar Safety Systems
1123 Cameron St
Hawkesbury
ON
K6A 2B8 Canada
Phone: 613 632 1282
Fax: 613 632 2030

PO No: PO038417
PO Date: 11/20/17
Due Date: 2/5/18
Purchase Order Revision:
Revision Date: 1/24/18
Ship-To Contact: Baker, Diane
Phone: dbaker@dataero.com

RECEIVED
\$

Ship To 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

Via: Ground
Pynt Terms: Net 30
Freight Terms:
Special Comments:

E-MAIL NOTED

Line Item	Part	Supplier Part No	Item No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
2	P3000-100P			Plasma® Long Line 3,000 lbs Safe Work Load (1,350 kg) As per dwg P3000-100 Rev. 1	Firmed	2/23/18	1 Ea	0 Ea	1 Ea	\$1,495.00/Ea	\$1,495.00
Line Item Note B168559 → 173618											
3	P3000-150P			Plasma® Long Line -Manufacture as per DWG P3000-150 Rev 1	Firmed	2/5/18	2 Ea	0 Ea	2 Ea	\$2,035.00/Ea	\$4,070.00
Line Item Note B168558 + 174208											
4	P3000-50P			Plasma® Long Line 3,000 lbs Safe Work Load (1,350 kg) As per Dwg P3000-50 Rev 1	Firmed	2/5/18	8 pcs	0 pcs	8 pcs	\$960.00/pcs	\$7,680.00
Line Item Note B168560											
5	P4400-100P			Plasma® Long Line 4,400 lbs Safe Work Load (2,000 kg) As Per Dwg P4400-100 Rev 1	Firmed	2/23/18	1 Ea	0 Ea	1 Ea	\$1,705.00/Ea	\$1,705.00
Line Item Note B168561											
6	P4400-150P			Plasma® Long Line 4,400 lbs Safe Work Load (2,000 kg) As per Dwg P4400-150 Rev 1	Firmed	2/5/18	1 pcs	0 pcs	1 pcs	\$2,340.00/pcs	\$2,340.00
Line Item Note B168562											
7	P4400-50P			Plasma® Long Line 4,400 lbs Safe Work Load (2,000 kg) As Per Dwg P4400-50 Rev. 1	Partial	2/5/18	2 pcs	2 pcs	0 pcs	\$1,070.00/pcs	\$0.00
Line Item Note B168563 + 174209											

Plex 2/15/18 8:23 AM dart lavore chanfa

PURCHASE ORDER

15/2018

				Items		Order		Received		Balance		Unit		Extended	
Line	Part	Supplier	Item	Description	Status	Due	Order	Quantity	Quantity	Balance	Price (CAD)	Price (CAD)	Price (CAD)	Price (CAD)	Price (CAD)
Item		Part No	No			Date	Quantity								
					Firmed	2/23/18	2 pcs	2x0 pcs	2 pcs	\$1,070.00/pcs				\$2,140.00	\$2,140.00
					Sub Total:		4	2							
8	P5400-50P			Plasma® Long Line 5,400 lbs Safe Work Load (2,500 kg) AS Per Dwg P5400-50 Rev 1	Firmed	2/5/18	1 pcs	0 pcs	1 pcs	\$1,185.00/pcs				\$1,185.00	
							1x								
Line Item Note	B168564														
10	P4400-25P			Plasma® Long Line 4,400 lb Safe Work Load (2,000 Kg) sales quote 19062	Firmed	3/5/18	1 Ea	0 Ea	1 Ea	\$701.80/Ea				\$701.80	
							1x								
Line Item Note	B170066														
11	P4400-50P			Plasma® Long Line 4,400 lbs Safe Work Load (2,000 kg) As Per Dwg P4400-50 Rev 1	Firmed	2/5/18	2 pcs	0 pcs	2 pcs	\$1,070.00/pcs				\$2,140.00	
							2x								
Line Item Note	B169944														
12	P3000-50P			Plasma® Long Line 3,000 lbs Safe Work Load (1,350 kg) As per Dwg P3000-50 Rev 1	Firmed	2/5/18	2 pcs	0 pcs	2 pcs	\$960.00/pcs				\$1,920.00	
							2x								
Line Item Note	B169943														
13	P3000-25P			Plasma® Long Line 3,000 lbs Safe Work Load (1,350 kg) As Per Dwg P3000-25	Firmed	2/22/18	1 pcs	0 pcs	1 pcs	\$725.00/pcs				\$725.00	
							1x								
Line Item Note	job # 169697														
										Grand Total		\$26,101.80			

Order Notes

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail please visit www.dartaerospace.com for further explanation

- Procurement Quality Clauses
- A005 RIGHT OF ENTRY
 - A007 FIRST ARTICLE INSPECTION (FAI) BY SELLER. (DOCUMENTATION MAINTAINED BY SUPPLIER)
 - A012 CHEMICAL AND PHYSICAL TEST REPORTS
 - A016 PERSONNEL QUALIFICATION
 - A017 RAW MATERIAL IDENTIFICATION (AS APPLICABLE)
 - A026 CERTIFICATION OF MATERIAL CONFORMANCE
 - A041 QUALITY MANAGEMENT SYSTEM
 - A042 DART NOTIFICATION BY SUPPLIER
 - A043 RETENTION OF QUALITY DOCUMENT
 - A048 COUNTERFEIT PARTS AVOIDANCE, DETECTION, MITIGATION AND DISPOSITION PROGRAM
 - A049 SUPPLIER AWARENESS

Plex 2/15/18 8 23 AM dart lavore chantal

DAS
11
9-89

PACKING SLIP

TULMAR

Tulmar Safety Systems Inc.
1123 Cameron Street
Hawkesbury, ON K6A 2B8
Tel: 613-632-1282
Fax: 613-632-2030
GST R132478223
MID : XOTULSAF1123HAW
email: info@tulmar.com

Packing Slip No Page

63118 1

Ship Date
4/6/2018

Bill To:

Dart Aerospace
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Canada

Ship To:

Dart Aerospace
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Canada

Order number	Sales order date	Account number	Loc	Account manager	
35465	11/21/2017	CDART100	H	Francine Bigras	
PO number	Ship via	Shipping Terms			
PO038417	Pick-Up				
Item No.	Quantity ordered	UOM	Qty Shipped/Returned	Quantity on back order	Description
REV 1: Pricing update - Dec. 22/17 TULMAR TRUCK					
37347-001	2.00	EA	2.00		Long Line, 50ft, 7/16" Plasma Drawing No: P3000-50 + TEO17-741 DWG Rev: 1 SF 43748
Lot no.: BATCH0000000004	2.00				
37347-003	1.00	EA	1.00		Long Line, 150ft, 7/16" Plasma Drawing No: P3000-150 + TEO17-741 DWG Rev: 1 SF 43747
Lot no.: BATCH0000000002	1.00				

Certificate of Conformance

☐ See Certification Enclosed

I hereby certify that the items listed hereon have been inspected, and / or tested (as applicable), conform to all specifications and requirements detailed in the contract or purchase order. Objective evidence to support this statement is on file, and can be made available upon request.
If any questions or concerns, please contact QA Manager @ 613-632-1282 ext. 225.

Authorized Inspector

Allen *Ch*

Date: APR 06 2018